

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0609.4110001/REF/JUKAPPLICATION NO.
09/425,956APPLICANTS
TANZI *et al.*FILING DATE
October 25, 1999GROUP
1643

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
PAD	AA1	4,504,585	03/12/1985	Reynolds, R.A.	436	518	04/05/1982
PAD	AB1	4,666,829	05/19/1987	Glenner <i>et al.</i>	435	6	05/15/1985
PAD	AC1	5,164,295	11/17/1992	Kisilevsky <i>et al.</i>	435	7.8	03/06/1991
PAD	AD1	5,231,000	07/27/1993	Majocha <i>et al.</i>	435	7.1	07/22/1991
PAD	AE1	5,242,932	09/07/1993	Gandy <i>et al.</i>	514	313	12/17/1991
PAD	AF1	5,262,332	11/16/1993	Selkoe, D.J.	436	518	09/19/1989
PAD	AG1	5,276,059	01/04/1994	Caughy <i>et al.</i>	514	647	07/10/1992
PAD	AH1	5,434,050	07/18/1995	Maggio <i>et al.</i>	435	7.21	08/13/1991
PAD	AI1	5,972,634	10/26/1999	Tanzi <i>et al.</i>	435	7.94	08/04/1997
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
PAD	AL1	WO 94/17197	08/04/1994	WIPO			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PAD	AR	1	Assaf, S.Y. and Chung, S.H., "Release of endogenous Zn ²⁺ from brain tissue during activity," <i>Nature</i> 308:734-736 (1984).
PAD	AS	1	Backstrom, J.R. <i>et al.</i> , "Characterization of Neutral Proteinases from Alzheimer-Affected and Control Brain Specimens: Identification of Calcium-Dependent Metalloproteinases from the Hippocampus," <i>J. Neurochem.</i> 58(3):983-992 (1992).
PAD	AT	1	Baker, R.J. <i>et al.</i> , "Platelet Metal Levels in Normal Subjects Determined by Atomic Absorption Spectrophotometry," <i>Thrombos. Haemostas. (Stuttg.)</i> 39:360-365 (1978).

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PAD.	AR	2	Björkstén, B. <i>et al.</i> , "Zinc and Immune Function in Down's Syndrome," <i>Acta Paediatr. Scand.</i> 69:183-187 (1980).
PAD.	AS	2	Bush, A.I. <i>et al.</i> , "The Amyloid Precursor Protein of Alzheimer's Disease Is Released by Human Platelets," <i>J. Biol. Chem.</i> 265(26):15977-15983 (1990).
PAD	AT	2	Bush, A.I. <i>et al.</i> , "An Abnormality of Plasma Amyloid Protein Precursor in Alzheimer's Disease," <i>Ann. Neurol.</i> 32(1):57-65 (1992).

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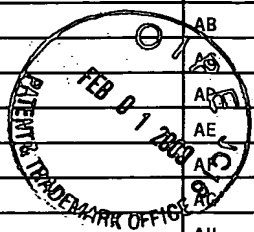
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PAD	AR	3	Bush, A.I. <i>et al.</i> , "A Novel Zinc(II) Binding Site Modulates the Function of the β A4 Amyloid Protein Precursor of Alzheimer's Disease," <i>J. Biol. Chem.</i> 268(22):16109-16112 (August 1993).
PAD	AS	3	Bush, A.I. <i>et al.</i> , "Modulation of A β Adhesiveness and Secretase Site Cleavage by Zinc," <i>J. Biol. Chem.</i> 269(16):12152-12158 (April 1994).
PAD	AT	3	Candy, J.M. <i>et al.</i> , "Aluminosilicates and Senile Plaque Formation in Alzheimer's Disease," <i>Lancet</i> :354-357 (1986).

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PAD	AR	4	Candy, J.M. <i>et al.</i> , "Amorphous aluminosilicates promote nucleation of amyloid β protein and tachykinins," <i>Biochem. Soc. Trans.</i> 21:53S (1992).
PAD	AS	4	Constantinidis, J., "Maladie d'Alzheimer et la théorie du zinc," <i>L'Encéphale</i> XVI:231-239 (1990). English Abstract only
PAD	AT	4	Corrigan, F.M. <i>et al.</i> , "Hippocampal tin, aluminum and zinc in Alzheimer's disease," <i>BioMetals</i> 6(3):149-154 (July 1993).

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PAD	AR	5	Crapper McLachlan <i>et al.</i> , "Intramuscular desferrioxamine in patients with Alzheimer's disease," <i>Lancet</i> 337:1304-1308 (1991).
PAD	AS	5	Davies, I.J.T., <i>et al.</i> , "Measurements of plasma zinc," <i>J. Clin. Path.</i> 21:359-365 (1968).
PAD	AT	5	Duncan, M.W. <i>et al.</i> , "Zinc, a Neurotoxin to Cultured Neurons, Contaminates Cycad Flour Prepared by Traditional Guamanian Methods," <i>J. Neuroscience</i> 12(4):1523-1537 (1992).

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PAD	AR	<u>6</u>	Esch, F.S. <i>et al.</i> , "Cleavage of Amyloid β Peptide During Constitutive Processing of Its Precursor," <i>Science</i> 248:1122-1124 (1990)
PAD	AS	<u>6</u>	Fitzgerald, D.J. <i>et al.</i> , "Zinc and Alzheimer's Disease," <i>Science</i> 268:1920-1923 (June 1995).
PAD	AT	<u>6</u>	Folstein, M.F. <i>et al.</i> , "'Mini-Mental State' A Practical Method for Grading the Cognitive State of Patients for the Clinician," <i>J. Psychiat. Res.</i> 12:189-198 (1975).

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	AP						Yes No

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PAD	AR	Z	Franceschi, C. <i>et al.</i> , "Oral zinc supplementation in Down's syndrome: restoration of thymic endocrine activity and of some immune defects," <i>J. Ment. Def. Res.</i> 32:169-181 (1988).
PAD	AS	Z	Frederickson, C.J. <i>et al.</i> , "Cytoarchitectonic Distribution of Zinc in the Hippocampus of Man and the Rat," <i>Brain Res.</i> 273:335-339 (1983).
PAD	AT	Z	Frederickson, C.J. <i>et al.</i> , "Zinc-containing 7S-NGF Complex. Evidence From Zinc Histochemistry for Localization in Salivary Secretory Granules," <i>J. Hist. Cytochem.</i> 35(5):579-583 (1987).

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	APPLICANTS TANZI <i>et al.</i>	
	FILING DATE October 25, 1999	GROUP 1643

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PAD	AR	8	Frederickson, C.J., "Neurobiology of Zinc and Zinc-Containing Neurons," <i>Intl. Rev. Neurobiol.</i> 31:145-238 (1989).
PAD	AS	8	Fredericq, E., "The Association of Insulin Molecular Units in Aqueous Solutions," <i>Arch. Biochem. Biophys.</i> 65:218-228 (1956).
PAD	AT	8	Galasko, D. <i>et al.</i> , "Monitoring Progression in Alzheimer's Disease," <i>JAGS</i> 39:932-941 (1991).

EXAMINER PATRICIA A. DUFFY	4/1/01	DATE CONSIDERED
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PAD	AR	2	Garruto, R.M. <i>et al.</i> , "Imaging of calcium and aluminum in neurofibrillary tangle-bearing neurons in parkinsonism-dementia of Guam," <i>Proc. Natl. Acad. Sci. USA</i> 81:1875-1879 (1984).
PAD	AS	2	Glenner, G.G. and Wong, C.W., "Alzheimer's Disease: Initial Report of the Purification and Characterization of a Novel Cerebrovascular Amyloid Protein," <i>Biochem. Biophys. Res. Comm.</i> 120(3):885-890 (1984).
PAM	AT	2	Guiroy, D.C. <i>et al.</i> , "Amyloid of neurofibrillary tangles of Guamanian parkinsonism-dementia and Alzheimer disease share identical amino acid sequence," <i>Proc. Natl. Acad. Sci. USA</i> 84:2073-2077 (1987).

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PAO	AR	10	Haass, C. <i>et al.</i> , "Amyloid β -peptide is produced by cultured cells during normal metabolism," <i>Nature</i> 359:322-325 (1992).
PAO	AS	10	Hershey, C.O. <i>et al.</i> , "Cerebrospinal fluid trace element content in dementia: Clinical, radiologic, and pathologic correlations," <i>Neurology</i> 33:1350-1353 (1983).
PAO	AT	10	Hilbich, C. <i>et al.</i> , "Aggregation and Secondary Structure of Synthetic Amyloid β A4 Peptides of Alzheimer's Disease," <i>J. Mol. Biol.</i> 218:149-163 (1991).

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PAD	AR	11	Hilbich, C. <i>et al.</i> , "Substitutions of Hydrophobic Amino Acids Reduce the Amyloidogenicity of Alzheimer's Disease BA4 Peptides," <i>J. Mol. Biol.</i> 228(2):460-473 (1992).
PAD	AS	11	Howell, G.A. <i>et al.</i> , "Stimulation-induced uptake and release of zinc in hippocampal slices," <i>Nature</i> 308:736-738 (1984).
PAD	AT	11	Hyman, B.T. <i>et al.</i> , "Perforant Pathway Changes and the Memory Impairment of Alzheimer's Disease," <i>Ann. Neurol.</i> 20:472-481 (1986).

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PAD	AR	12	Jarrett, J.T. <i>et al.</i> , "The Carboxy Terminus of the β Amyloid Protein Is Critical for the Seeding of Amyloid Formation: Implications for the Pathogenesis of Alzheimer's Disease," <i>Biochemistry</i> 32(18):4693-4697 (May 1993).
PAD	AS	12	Johnstone, E.M. <i>et al.</i> , "Conservation of the sequence of the Alzheimer's disease amyloid peptide in dog, polar bear and five other mammals by cross-species polymerase chain reaction analysis," <i>Molec. Brain Res.</i> 10:299-305 (1991).
PAD	AT	12	Kim, K.S. <i>et al.</i> , "Detection and Quantitation of Amyloid B-Peptide with 2 Monoclonal Antibodies," <i>Neurosci. Res. Comm.</i> 7(2):113-122 (1990).

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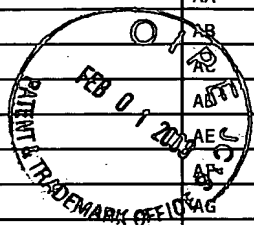
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PAD	AR	13	Koh, J.Y. <i>et al.</i> , "β-Amyloid protein increases the vulnerability of cultured cortical neurons to excitotoxic damage," <i>Brain Res.</i> 533:315-320 (1990).
PAD	AS	13	Koo, E.H. <i>et al.</i> , "Amyloid β-protein as a substrate interacts with extracellular matrix to promote neurite outgrowth," <i>Proc. Natl. Acad. Sci. USA</i> 90:4748-4752 (May 1993).
PAD	AT	13	Lindbladh, C. <i>et al.</i> , "Use of genetically prepared enzyme conjugates in enzyme immunoassay," <i>TIBS</i> 18:279-283 (August 1993).

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DAD	AR	14	Lui, E. <i>et al.</i> , "Metals and the Liver in Alzheimer's Disease: An Investigation of Hepatic Zinc, Copper, Cadmium, and Metallothionein," <i>JAGS</i> 38:633-639 (1990).
JAD	AS	14	Mantyh, P.W. <i>et al.</i> , "Aluminum, Iron, and Zinc Ions Promote Aggregation of Physiological Concentrations of β -Amyloid Peptide," <i>J. Neurochem.</i> 61(3):1171-1174 (September 1993).
DAD	AT	14	Masters, C.L. <i>et al.</i> , "Amyloid plaque core protein in Alzheimer disease and Down syndrome," <i>Proc. Natl. Acad. Sci. USA</i> 82:4245-4249 (1985).

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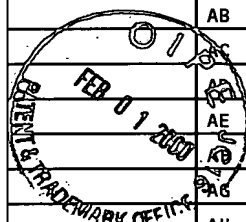
FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0609.4110001/REF/JUKAPPLICATION NO.
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U.S. PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PAS	AR	15	Masters, C.L. <i>et al.</i> , "Neuronal origin of a cerebral amyloid: neurofibrillary tangles of Alzheimer's disease contain the same protein as the amyloid of plaque cores and blood vessels," <i>EMBO J.</i> 4(11):2757-2763 (1985).
PAS	AS	15	Milward, E.A. <i>et al.</i> , "The Amyloid Protein Precursor of Alzheimer's Disease Is a Mediator of the Effects of Nerve Growth Factor on Neurite Outgrowth," <i>Neuron</i> 9:129-137 (1992).
PAS	AT	15	Pérez-Clausell, J. and Danscher, G., "Intravesicular Localization of Zinc in Rat Telencephalic Boutons. A Histochemical Study," <i>Brain Res.</i> 337:91-98 (1985).

EXAMINER

PATRICIA A. DUFFY

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PAD	AR	<u>16</u>	Perl, D.P. and Brody, A.R., "Alzheimer's Disease: X-ray Spectrometric Evidence of Aluminum Accumulation in Neurofibrillary Tangle-Bearing Neurons," <i>Science</i> 208:297-299 (1980).
PAD	AS	<u>16</u>	Perl, D.P. <i>et al.</i> , "Intraneuronal Aluminum Accumulation in Amyotrophic Lateral Sclerosis and Parkinsonism-Dementia of Guam," <i>Science</i> 217:1053-1055 (1982).
PAD	AT	<u>16</u>	Rumble, B. <i>et al.</i> , "Amyloid A4 Protein and its Precursor in Down's Syndrome and Alzheimer's Disease," <i>New Eng. J. Med.</i> 320(22):1446-1452 (1989).

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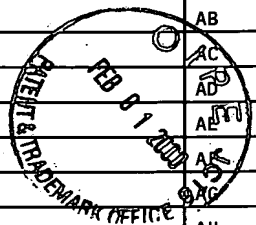
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PAD	AR	17	Schubert, W. <i>et al.</i> , "Localization of Alzheimer β A4 amyloid precursor protein at central and peripheral synaptic sites," <i>Brain Res.</i> 563:184-194 (1991).
PAD	AS	17	Seubert, P. <i>et al.</i> , "Isolation and quantification of soluble Alzheimer's β -peptide from biological fluids," <i>Nature</i> 359:325-327 (1992).
PAD	AT	17	Shivers, B.D. <i>et al.</i> , "Alzheimer's disease amyloidogenic glycoprotein: expression pattern in rat brain suggests a role in cell contact," <i>EMBO J.</i> 7(5):1365-1370 (1988).

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PAD	AR	18	Shoji, M. <i>et al.</i> , "Production of the Alzheimer Amyloid β Protein by Normal Proteolytic Processing," <i>Science</i> 258:126-129 (1992).
PAD	AS	18	Sisodia, S.S. <i>et al.</i> , "Evidence That β -Amyloid Protein in Alzheimer's Disease Is Not Derived by Normal Processing," <i>Science</i> 248:492-495 (1990).
PAD	AT	18	Stewart, G.R. <i>et al.</i> , "Cholinergic Denervation-Induced Increase of Chelatable Zinc in Mossy-Fiber Region of the Hippocampal Formation," <i>Brain Res.</i> 290:43-51 (1984).

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0609.4110001/REF/JUK	APPLICATION NO. 09/425,956
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	AN						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

2AD	AR	19	Suzuki, N. <i>et al.</i> , "High Tissue Content of Soluble β 1-40 is Linked to Cerebral Amyloid Angiopathy," <i>Am. J. Path.</i> 145(2):452-460 (August 1994).
2AD	AS	19	Tomski, S.J. and Murphy, R.M., "Kinetics of Aggregation of Synthetic β -Amyloid Peptide," <i>Arch. Biochem. Biophys.</i> 294(2):630-638 (1992).
2AD	AT	19	Uchida, Y. <i>et al.</i> , "The Growth Inhibitory Factor That Is Deficient in the Alzheimer's Disease Brain Is a 68 Amino Acid Metallothionein-like Protein," <i>Neuron</i> 7:337-347 (1991).

EXAMINER PATRICIA A DUFFY	DATE CONSIDERED 4/1/01
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PAD	AR	20	Vaughan, D.W. and Peters, A., "The Structure of Neuritic Plaques in the Cerebral Cortex of Aged Rats," <i>J. Neuropathol. Exp. Neurol.</i> 40(4):472-487 (1981).
PAD	AS	20	Weiss, J.H. <i>et al.</i> , "Zinc and LTP," <i>Nature</i> 338:212 (1989).
PAD	AT	20	Wenstrup, D. <i>et al.</i> , "Trace element imbalances in isolated subcellular fractions of Alzheimer's disease brains," <i>Brain Res.</i> 533:125-131 (1990).

EXAMINER

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PAD	AR	21	Wolf, G. <i>et al.</i> , "Uptake and Subcellular Distribution of ⁶⁵ Zinc in Brain Structures During the Postnatal Development of the Rat," <i>Neurosci. Lett.</i> 51:277-280 (1984).
PAD	AS	21	Xie, X. and Smart, T.G., "A physiological role for endogenous zinc in rat hippocampal synaptic neurotransmission," <i>Nature</i> 349:521-524 (1991).
PAD	AT	21	Yankner, B.A. <i>et al.</i> , "Neurotrophic and Neurotoxic Effects of Amyloid β Protein: Reversal by Tachykinin Neuropeptides," <i>Science</i> 250:279-282 (1990).

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PATRICIA A. DURY

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PAD 5/18/02	AR	22	Burdick, D., <i>et al.</i> , "Assembly and Aggregation Properties of Synthetic Alzheimer's A4/β Amyloid-Peptide Analogs," <i>J. Biol. Chem.</i> 267:546-554 (1992).
PAD	AS	22	Campbell, A.M., "Monoclonal Antibody and Immunosensor Technology," in <i>Laboratory Techniques in Biochemistry and Molecular Biology</i> , Vol. 23, van der Vliet, P.C., ed., Elsevier, Amsterdam, The Netherlands, pp. 1-6 (1991).
PAD 5/18/02	AT	22	Garzon-Rodriguez, W., <i>et al.</i> , "Soluble Amyloid Aβ-(1-14) Exists as a Stable Dimer at Low Concentrations," <i>J. Biol. Chem.</i> 272:21037-21044 (August 1997).

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PAD 5/18/02	AR	23	Iwatsubo, T., <i>et al.</i> , "Visualization of A β 42(43) and A β 40 in Senile Plaques with End-Specific A β Monoclonals: Evidence That an Initially Deposited Species Is A β 42(43)," <i>Neuron</i> 13:45-53 (July 1994).
PAD	AS	23	Mak, K., <i>et al.</i> , "Polyclonals to β -amyloid(1-42) identify most plaque and vascular deposits in Alzheimer cortex, but not striatum," <i>Brain Res.</i> 667:138-142 (December 1994).
PAD	AT	23	Voller, A. and Bidwell, D.E., "Enzyme immunoassays," in <i>Alternative Immunoassays</i> , Collins, W.P., ed., John Wiley & Sons, Ltd., New York, NY, pp. 77-86 (1985).

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PAD	AR	24	International Search Report for PCT/US94/11895, dated February 22, 1995. Not a printable citation				
PAD	AS	24	Letter from Dr. Greg Cole to Dr. Ashley Bush, dated January 27, 1994. Not a printable citation				
	AT						

EXAMINER

BARBARA A. DUFFY

DATE CONSIDERED

4/1/01

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